

Immobilized Ficin (Agarose Resin)

Cat. No. NATE-1865

Lot. No. (See product label)

Introduction

Description

Immobilized Ficin specifically cleaves mouse IgG1 into F(ab')₂ or Fab fragments in the presence of 4mM or 25mM cysteine, respectively. Fragment generation from other species and isotypes may also be possible through modification of the cysteine concentration and other digestion parameters. Ficin, isolated from fig latex, is a sulfhydryl protease with a similar active site to bromelain and papain; however, yields and immunoreactivity are better when digesting mouse IgG1 with ficin. Ficin acts on bonds involving uncharged and aromatic amino acids. Ficin (25K) is effective at pH 4-9.5 with an optimum pH of 6.5. Ficin immobilization enhances stability against denaturation, heat and autolysis. Immobilization also eliminates the potential for antibody-enzyme adducts that result in continued sample digestion. Additionally, immobilization allows ficin to be reused.

Synonyms

Immobilized Ficin

Product Information

Form

33% slurry (i.e., 5mL of settled resin is equal to 15mL of slurry)

EC Number

EC 3.4.22.3

Activity

~1.2mg/mL of settled resin

Storage and Shipping Information

Storage

Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, between the following temperatures: 2 to 8°C.